

CONTENTS

Authors	13
Introduction	17

1 | Ear and vestibular system 19

David Slouka, Monika Vohlídková, Filip Ruml, Štěpánka Sýkorová

1.1 Basics of clinical anatomy and physiology.....	19
1.2 Methods of investigation.....	30
1.2.1 Case history and physical examination	30
1.2.2 Investigation of hearing.....	32
1.2.2.1 Subjective methods of investigation	32
1.2.2.2 Objective methods of investigation.....	38
1.2.2.3 Investigation of hearing in infants	41
1.2.2.4 Investigation of the Eustachian tube.....	42
1.2.3 Investigation of balance system function	43
1.2.3.1 Case history.....	43
1.2.3.2 Investigation of oculomotor activity	43
1.2.3.3 Investigation of vestibuloocular and vestibulospinal reflexes	45
1.2.3.4 Experimental tests of the vestibular system (provoked nystagmus).....	46
1.2.4 Imaging techniques in otology	47
1.3 Ear pathology.....	51
1.3.1 Non-neoplastic diseases	51
1.3.1.1 Congenital disorders.....	51
1.3.1.2 External ear diseases	52
1.3.1.3 Middle ear diseases	56
1.3.1.4 Inner ear diseases	67
1.3.2 Neoplastic diseases	75
1.4 Ear trauma.....	77
1.5 Common types of ear surgery	81

2 | Nose and paranasal sinuses 83

Vladan Hrabě, Viktorie Herejková, Robert Sakař, David Slouka

2.1 Basics of clinical anatomy and physiology.....	83
2.2 Methods of investigation.....	88

2.3 Pathology of the nose and paranasal sinuses	92
2.3.1 Non-neoplastic diseases	92
2.3.1.1 Congenital defects	92
2.3.1.2 Injuries	93
2.3.1.3 Epistaxis	96
2.3.1.4 Inflammation of the external nose	99
2.3.1.5 Rhinitis, rhinosinusitis	100
2.3.1.6 Specific nasal and paranasal sinus inflammation	113
2.3.1.7 Nasal septal diseases	114
2.3.1.8 Olfactory disorders	115
2.3.2 Neoplastic diseases	117
2.3.2.1 Benign neoplasms	117
2.3.2.2 Malignant neoplasms	118
2.4 Diseases of lacrimal system	122
2.5 Common nasal and paranasal sinus surgery	123
2.5.1 External nasal surgeries	123
2.5.2 Surgery of the nasal cavity	123
2.5.3 Paranasal sinus surgery	124
2.5.3.1 External-approach surgery	124
2.5.3.2 Endoscopic endonasal surgery	125
3 Oral cavity, pharynx	127
Jaromír Nasswetter, Ondřej Trčka, Jiří Krčál, Jana Hanáková, David Slouka	
3.1 Basics of clinical anatomy and physiology	127
3.2 Methods of investigation	132
3.3 Pathology of the oral cavity and pharynx	133
3.3.1 Non-neoplastic diseases	133
3.3.1.1 Hyperplasia of the pharyngeal lymphoepithelial ring	133
3.3.1.2 Oral cavity diseases	134
3.3.1.3 Pharyngeal diseases	137
3.3.2 Neoplastic diseases	147
3.3.2.1 Orofacial neoplasms	147
3.3.2.2 Nasopharyngeal tumors	151
3.3.2.3 Oro- and hypopharyngeal neoplasms	153
3.4 Common surgery of the oral cavity and pharynx	155

4 Salivary glands	159
Ondřej Sebera, Jiří Krčál, Jana Kúsová, David Slouka	
4.1 Basics of clinical anatomy and physiology	159
4.2 Methods of investigation	162
4.3 Pathology of salivary glands	163
4.3.1 Non-neoplastic diseases	163
4.3.1.1 Acute sialadenitis.....	163
4.3.1.2 Chronic sialadenitis	164
4.3.1.3 Immunology-based sialadenitis	165
4.3.1.4 Other non-neoplastic diseases.....	165
4.3.2 Neoplastic diseases.....	166
4.4 Common types of salivary gland surgery	167
5 Esophagus	169
Ondřej Trčka, Jaromír Nasswetter, Jiří Krčál, Petr Škopek, David Slouka	
5.1 Basics of clinical anatomy and physiology	169
5.2 Methods of investigation	170
5.3 Pathology of the esophagus.....	173
5.3.1 Non-neoplastic diseases	173
5.3.2 Neoplastic diseases.....	176
6 Larynx and trachea.....	179
Jaromír Nasswetter, Ondřej Trčka, Jiří Krčál, Monika Vohlídková, Petr Hřabačka, Tomáš Svoboda, David Slouka	
6.1 Basics of clinical anatomy and physiology.....	179
6.2 Methods of investigation	183
6.3 Pathology of the larynx and trachea	187
6.3.1 Non-neoplastic diseases	187
6.3.1.1 Congenital birth defects	187
6.3.1.2 Laryngeal innervation disorders	188
6.3.1.3 Laryngeal and tracheal inflammations	190
6.3.1.4 Laryngeal injuries.....	195
6.3.2 Neoplastic diseases.....	197
6.3.2.1 Benign laryngeal lesions.....	197
6.3.2.2 Malignant neoplasms.....	198
6.4 Common types of laryngeal surgery	206
6.5 Care of patient after total laryngectomy	209

7 Thyroid gland	213
Jiří Krčál, Ondřej Trčka, Vladan Hrabě, David Slouka	
7.1 Basics of clinical anatomy and physiology.....	214
7.2 Methods of investigation	215
7.3 Pathology of the thyroid gland.....	217
7.3.1 Non-neoplastic diseases	217
7.3.2 Neoplastic diseases.....	219
7.3.2.1 Benign neoplasms	219
7.3.2.2 Malignant neoplasms.....	220
7.4 Parathyroid glands.....	223
7.5 Common types of thyroid surgery	224
8 Other issues related to external neck.....	227
Jiří Krčál, Ondřej Trčka, Jaromír Nasswetter, David Slouka	
8.1 Basics of clinical anatomy and physiology.....	227
8.2 Methods of investigation	231
8.3 Neck mass	233
8.4 Neck dissections	238
9 Sleep apnea syndrome.....	241
Břetislav Gál, Vojtěch Kubec, Tomáš Kostlivý, Martina Baněčková, David Slouka	
9.1 Sleep.....	241
9.2 Sleep disorders.....	243
9.3 Sleep and breathing	244
9.4 Sleep apnea syndrome and snoring.....	245
9.4.1 Ronchopathy	245
9.4.2 Obstructive sleep apnea syndrome	245
9.4.3 Central and mixed sleep apnea syndrome	247
9.4.4 Prevalence of SAS, etiology, pathophysiology of OSAS	248
9.5 Diagnosis of OSAS.....	249
9.5.1 Case history and physical examination	249
9.5.2 In-lab sleep monitoring	252
9.6 OSAS treatment.....	255
9.6.1 Conservative therapy for OSAS.....	255
9.6.2 Surgical treatment for OSAS.....	257
9.7 Specifics of OSAS in childhood.....	261
9.8 Diagnostic and treatment scheme of OSAS.....	263

10 Nursing care in otorhinolaryngology	265
Věra Olišarová, Jana Janská, David Slouka	
10.1 Main assignments in nursing care for patients after ENT surgery	265
10.2 Main nurse assignments in postoperative nursing care for patients after total laryngectomy.....	266
10.3 The tracheostomy tube specifics.....	269
10.4 Application of selected models in nursing care for patients after ENT surgery.....	269
Abbreviations	273
References.....	277
Summary	279
Souhrn	280
Index	281